

THERMO-TEK LM AIR ALU



January 2023

with **ECOSE[®]**
TECHNOLOGY



DESCRIPTION

Thermo-teK LM Air ALU is a **lightweight glass mineral wool mat**, consisting of individual mineral wool strips (lamellas) that are bonded on one side to a tear-resistant, glass mesh reinforced aluminium foil.

Due to its excellent flexibility and lightweight in combination with good mechanical resistance and stiffness, it is a perfect solution for use in rectangular and circular ventilation ducts as well as on small, round objects and pipes.

Knauf Insulation Thermo-teK LM Air ALU is produced with **ECOSE[®] Technology**, a patented binder system, based entirely on renewable raw materials.

PERFORMANCE

Max. service temperature	250 °C (EN ISO 18097)
Service temperature ALU facing	≤ 80 °C
Reaction to fire	A2-s1, d0 (EN 13501-1)
Apparent density	ca. 28 kg/m ³ (EN ISO 29470)
Declaration of performance*	http://dopki.com/T4338APCPR

* for detailed information on DoP please check the product label

APPLICATION

Defined Thermo-teK applications:

- Rectangular air ducts – outside insulation
- Circular air ducts – outside insulation
- Pipe insulation – heating, water supply
- Ducts & pipes in technical & acoustic rooms

The product is recommended for thermal, fire and sound insulation of defined Thermo-teK applications within technical insulation where:

- **a light and flexible solution is required**
- a good visual appearance after installation is needed

BENEFITS

- ✓ Lightweight and very flexible solution (much lighter than similar products)
- ✓ One (universal) product for different applications, forms, diameters and sizes
- ✓ Tear-resistant, sturdy aluminium lamination
- ✓ Easy to handle, cut and install around different shapes (perfect edge fit on rectangular ducts, perfect bending, staying solid / excellent forming even on small diameter pipes)
- ✓ Good mechanical resistance / stiffness (durable and robust)
- ✓ Professional visual appearance on finished installations
- ✓ User-friendly soft touch
- ✓ ECOSE[®] Technology



STANDARDS

Knauf Insulation products are produced according to four of the most important International Management Standards for sustainability: ISO 9001 (Quality Management), ISO 14001 (Environmental Management), ISO 50001 (Energy Management) and ISO 45001 (Health and Safety Management), all certified by Tüv Nord.

CERTIFICATES



THERMO-TEK LM AIR ALU



January 2023

SPECIFICATIONS

Description	Sign	Description/data							Unit	Standard
Thermal conductivity depending on temperature	ρ	10	40	50	100	150	200	250	°C	EN 12667
	λ	0,036	0,042	0,044	0,054	0,067	0,082	0,100	W/(mK)	
Water vapour diffusion equivalent air layer thickness ALU	S_d	≥ 200							m	EN 12086
Silicone free	-	No emissions of lacquering disturbing substances							-	-
Designation code	-	MW-EN14303-T5-ST(+)-250-MV2							-	EN 14303

Declared material properties are obtained in the production process and ensured by the factory production control in accordance with the European Standard at the time of manufacture. Observing storage and handling guidelines will maintain performance within published tolerances.

HANDLING

Knauf Insulation products are easy to handle and easy to install. They are supplied in suitable packaging materials to balance necessary transport protection with sustainable recycling options. Packaging is not designed for long-term storage or exposure to harsh weather conditions. Further product information is mentioned on every pack.

STORAGE

For longer-term protection on site we recommend storing the product either indoors or alternatively under a roof cover and off the ground. If covered storage is not available, products can be stored outside (open-air-storage) if placed off the ground (keep palletized) and covered with plastic hood (foil), for a maximum of up to 6 months from the date of delivery. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature.

STANDARD FORMATS*

Thickness	25 - 100 mm
Width	500 / 600 / 1000 / 1200 mm
Length	2500 - 8000 mm

*Other dimensions on request.



Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE® Technology contain no dye or artificial colours – the colour is completely natural.

Knauf Insulation d.o.o.

Varaždinska 140, 42220 Novi Marof, Croatia | E-mail: ts@knaufinsulation.com

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Commercial use of the processes and work presented in this document is not permitted. Extreme caution was taken in assembling the information, texts and illustrations in this document. Nevertheless, errors cannot be entirely ruled out. The publisher and editors assume no legal responsibility or any liability whatsoever for any incorrect information or any consequences thereof. The publisher and editors are grateful for any suggestions for improvement as well as the identification of any errors.